

Interconnect test specification

BT – MOBILE CP SMS; MAP/SCCP signalling protocol

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Contents

Re	eferences	5
Gl	lossary	6
1	Introduction	7
2	Test Schedule	8
_	2.1 Nomenclature	
	2.2 Test Procedures	
	2.3 Signalling Link Management Level 2 Operation	
	2.4 Signalling Link Management Level 3 Operation	
	2.5 Link Failures – Testing the transfer of MAP messages during various link failure	
	scenarios	10
	2.6 SMS Set-up Variants	
	2.6.1 Call to free subscriber	
	2.6.2 Call to busy subscriber	
	2.6.3 Call to unregistered Fixed SMS customer	
	2.6.4 Call to out of range/switched off mobile –	13
	2.6.5 Call to invalid/OOS number/stolen or barred mobile	
	2.6.6 Call to invalid/OOS fixed line number.	
	2.6.7 Call to line on divert	
	2.7 Mobile Originated messages containing at least 321 characters to a Fixed line equip	
	with a DECT phone	
	2.8.1 Mobile originated SMS messages containing 'known' abbreviations	
	2.8.2 Mobile originated SMS messages containing 'unknown' abbreviations	
	2.8.3 Mobile originated SMS messages containing trikitown abbreviations	17
	2.8.4 Mobile originated SMS message with greater than 321 characters (testing multip	
	delivery)	
	2.8.5 Mobile originated SMS containing a picture	
	2.8.6 Generate SMS from VSD platform template	18
	2.9 Check performance of BT text to speech delivery to a 1571 voicebox	
	2.9.1 Mobile originated SMS messages containing 'known' abbreviations	
	2.9.2 Mobile originated SMS messages containing 'unknown' abbreviations	
	2.9.3 Mobile originated SMS messages containing 'Adult content'	
	2.9.4 Mobile originated SMS message with greater than 321 characters (testing multip	
	delivery)	
	2.9.5 Mobile originated SMS containing a picture	
	2.9.6 Generate SMS from VSD platform template	19
	2.9.7 Generate sufficient 1571 maximum deposits to confirm treatment of subsequent	
	messages	20
	2.10 Generate sufficient fixed originated SMS to fill a SIM card to achieve the 'SIMFULL'	~~
	response to confirm treatment of subsequent	20
	2.11 Generate SMS messages in both directions using international (+44) and National	20
	Called Party Numbers	
	2.12 Attempt to generate fixed originated SMS messages with no CLI and withheld CLI2.13 Generate Fixed originated SMS messages to 02 Short Codes	
	2.14 Provocative Tests - Normal Conditions	
	2.14 Provocative rests - Normal Conditions	
	2.16 Alarm tests	
	2.10 / 10.11 (300)	_0
ΑF	PPENDIX A TEST CONFIGURATION	25
	1 Standard Interconnect tests Error! Bookmark not define	èd.

References

- [1] Current issue of PNO-ISC/SPEC/003
- [2] Current issue of PNO-ISC/SPEC/005
- [3] Current issue of PNO-ISC/INFO/007
- [4] ETS 300901
- [5] ETS 300974
- [6] ETSI ts 123040 v3.8.0
- [7] ETSI ts 129002 v3.16.0

Glossa	ry		
Ack	Acknowledgement	SLC SMS	Signalling Link Code Short Message Service
BT	British Telecommunications plc	SMSC	Short Message Service Switching Centre
CLI CBA CBD COA COO CPE	Calling Line Identity Change Back Acknowledgement Change Back Declaration Change Over Acknowledgement Change Over Order Customer Premises Equipment	SPR SRI SS7 STP	Signalling Point Relay Send Routing Information (digits required to reach MSC) Signalling System No.7 Signalling Transfer Point
DASS2 DECT	Digital Access Signalling System No.2 Digital Enhanced Cordless Telecommunications	TFP TFA TX T/S	Transfer Prohibited Transfer Allowed Transmit Timeslot
ETSI	European Telecommunications Standards Institute	VSD	Voicemail platform
FSMS FSMSC	Fixed Short Message Service Fixed Short Message Service Switching Centre		
HLR	Home Location Register		
ISDN Network ISDN2 ISDN2e	Integrated Services Digital Basic Rate ISDN service using the DASS2 protocol Basic Rate ISDN service using the Q.931 protocol		
MAP MOBILE Operator MSC MT	Mobile Application Part CP Other Licensed Mobile MMS More Messages to follow Mobile Switching Centre Mobile Terminate		
NNG	National Number Group		
OFTEL OOS	Office of Telecommunications Out of Service		
PNO POTS	Public Network Operator Plain Ordinary Telephone System		
RST RX	Route Set Test Receive		
SCCP SIE	Signalling Connection Control Point Signalling Indication Emergency Subscriber Identification Medule		

Subscriber Identification Module

Signalling Indication Normal

SIM SIN

1 Introduction

This test specification is designed to test the MOBILE CP SS7 SCCP signalling interface. The interconnection with BT will be a route using 2 signalling channels in one linkset and a single signalling channel in a second linkset as shown in the configuration diagram 1 in Appendix A. This specification also checks the operation of transmission alarms.

The interconnect route will be able to carry MAP/SCCP messages between the MOBILE CP MSC and the BT Wordsworth platform for the transfer of SMS messages.

The test specification is designed to check correct operation of the services available across the Interconnect. The reactive nature of the testing process may prompt the test teams to execute additional tests to identify and fully understand the implications of a particular test scenario. This additional testing will be undertaken at the test team's discretion, but if significant departures from the agreed test specification are envisaged, the parties involved in the original agreement will review this. Where changes are made during the course of testing to overcome non compliance with the Interconnect requirements, an element of regression testing may be required to ensure that tests previously completed successfully have not been affected.

This interconnect testing is carried out against the specifications [1].[2],[3],[4],[5],[6],[7].

2 Test Schedule

2.1 Nomenclature

BT Test Facility Model Network and associated CPE

MOBILE CP switch and associated CPE

ISDN2 Basic Rate ISDN using the DASS2 signalling system

ISDN2e Basic Rate ISDN using the ETSI signalling system

ISDN Primary Rate ISDN using the ETSI signalling system

2.2 Test Procedures

- 1. Check all received flag settings on initial call set-ups.
- 2. Overall call behaviour to be checked in all tests.
- 3. All test results on the signalling tester to be captured.
- 4. Link failures to be done by manually out of servicing the signalling at the relevant end, unless the test calls for the link to be broken.
- 5. Details for tests NOT required have been removed.
- 6. Number ranges for the BT NIF network are given in Appendix A

2.3 Signalling Link Management Level 2 Operation

Start with all signalling links OOS. Use the 2-link linkset for these tests

2.3.1	Check signalling link Emergency Alignment (SIE messages) by initiating alignment from both BT and MOBILE CP ends		
Test	Parameters	Comments	Results
(a)	BT > MOBILE CP (SLC0)		
(b)	BT > MOBILE CP (SLC1)		
(c)	MOBILE CP > BT (SLC0)		
(d)	MOBILE CP > BT (SLC1)		

2.3.2	Check signalling link Normal Alignment by initiating Alignment (SIN messages) from both BT and MOBILE CP ends.				
Test	Parameters	Comments	Results		
(a)	BT > MOBILE CP (SLC0)				
(b)	MOBILE CP > BT (SLC1)				

2.4 Signalling Link Management Level 3 Operation

2.4.1	Check the correct activation of the first link of the linkset (SLC=0) from both MOBILE CP and BT ends. Ensure Changeback Declarations and Changeback Acknowledgements are correctly exchanged. NB Link SLC=1 should be in-service for this test.			
Test	Parameters	Comments	Results	
(a)	BT > MOBILE CP			
(b)	MOBILE CP > BT			

2.4.2	Check the correct activation of the second link of the linkset (SLC=1) from both MOBILE CP and BT ends. Ensure Changeback Declarations (CBD) and Changeback Acknowledgements (CBA) are correctly exchanged. Link SLC=0 should be in service for this test.				
Test	Parameters	Comments	Results		
(a)	BT > MOBILE CP				
(b)	MOBILE CP > BT				

2.4.3	Check the correct de-activation of the first link of the linkset (SLC=0) from both MOBILE CP and BT ends. Ensure Changeover Orders (COO messages) and Changeover Acknowledgements (COA messages) are correctly exchanged. Link SLC=1 should be in-service for this test.				
Test	Parameters	Comments	Results		
(a)	BT > MOBILE CP				
(b)	MOBILE CP > BT				

2.4.4	Check the correct de-activation of the second link of the linkset (SLC=1) from both MOBILE CP and BT ends. Ensure Changeover Orders (COO messages) and Changeover Acknowledgements (COA messages) are correctly exchanged. Link SLC=0 should be in-service for this test.			
Test	Parameters	Comments	Results	
(a)	BT > MOBILE CP			
(b)	MOBILE CP > BT			

2.4.5	Check signalling link Changeover (COO/COA messages) under fault conditions, e.g disconnection of the 2Megabit bearer				
Test	Parameters	Comments	Results		
(a)	BT > MOBILE CP				
(b)	MOBILE CP > BT				

2.5 Link Failures – Testing the transfer of MAP messages during various link failure scenarios

This test will require a SS7 emulator to generate a stream of MAP SRI messages prior to and during the link failure scenarios

BT > MOBILE CP

2.5.1	Failure of First Choice Route. Messages should be transferred across the second choice route				
Test	Parameters	Comments	Results		
(a)	(Failure initiated by BT)				
(b)	(Failure initiated by MOBILE CP)				

2.5.2	Failure of First Choice Route. Messages should be transferred across the second choice route			
Test	Parameters	Comments	Results	
(a)	(Failure initiated by BT)			

(b)	(Failure initiated by MOBILE CP)		
-----	----------------------------------	--	--

BT > MOBILE CP

2.5.3	Failure of link '0' within Two Link Linkset. Messages should be transferred across the remaining link (SLC=1)								
Test	Parameters	Comments	Results						
(a)	(Failure of SLC = 0 initiated by BT)								
(b)	(Failure of SLC=0 initiated by MOBILE CP)								

MOBILE CP > BT

2.5.4	Failure of link '0' within Two Link Linkset. Messages should be transferred across the remaining link (SLC=1)								
Test	Parameters	Comments	Results						
(a)	(Failure of SLC =0 initiated by BT)								
(b)	(Failure of SLC=0 initiated by MOBILE CP)								

2.5.5	Failure of both linksets during a restoration.	a test stream to check performance of the I	inks upon
Test	Parameters	Comments	Results
(a)	MOBILE CP> BT		
(b)	BT > MOBILE CP		

2.6 SMS Set-up Variants

2.6.1 Call to free subscriber

This test will be undertaken between a Fixed line equipped with a DECT handset and a Mobile handset.

Check call set up parameters.

N.B. The SMS service is not included in the OFTEL CLI Code of Practice, however OFTEL has decreed that SMS message MUST contain a CLI (No anonymous messages).

BT > MOBILE CP

Test 2.6.1	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

MOBILE CP > BT

Test 2.6.1	Access code	Orig. Line	Term. Line	CLI	Comment	Results
(b)	11digits	Mobile	POTS	Released		

2.6.2 Call to busy subscriber

2.6.2.1 SMS attempt to a busy mobile.

As the mobile network will deliver the SMS message to a busy mobile, confirm successful delivery of the message

BT > MOBILE CP

Test 2.6.2 .1	code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

2.6.2.2 SMS attempt to a busy fixed line equipped with a DECT handset

Confirm whether the message is delivered to the busy handset or whether it is stored and delivered later when the handset is free.

Test 2.6.2 .2	Access code	Orig. Line	Term. Line	CLI	Comment	Results
(a)	11digits	Mobile	POTS	Released		

2.6.3 Call to unregistered Fixed SMS customer

BT will deliver the SMS message via the text to speech converter.

MOBILE CP > BT

Test 2.6.3	Access code	Orig. Line	Term. Line	CLI	Comment	Results
(a)	11digits	Mobile	POTS	Released		

2.6.4 Call to out of range/switched off mobile -

The Fixed SMSC will generate an SRI query to the 02 HLR which will return a SRI Ack with reason i.e. 'absent mobile', the FSMS will store the message. When the mobile has reattached, the HLR will generate an 'alert service centre' message to inform the SMS that the mobile is now active. The FSMSC will start a new MT forward SMS transaction to send the message to the mobile. In both cases after the failed delivery attempt, the mobile will be 'reattached' to confirm the successful subsequent delivery of the SMS message.

2.6.4.1 SMS attempt to a mobile where battery removed (Absent detached)

BT > MOBILE CP

Test 2.6.4 .1	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

2.6.4.2 SMS attempt to a mobile which has been switched off (Fully detached)

BT > MOBILE CP

Test 2.6.4 .2	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

2.6.5 Call to invalid/OOS number/stolen or barred mobile.

2.6.5.1 Attempt to generate SMS message to an Invalid 'mobile' number

BT > MOBILE CP

Test 2.6.5	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

2.6.5.2 Attempt to generate SMS message to an Out of Service Mobile

BT > MOBILE CP

Test 2.6.5	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

2.6.5.3 Attempt to generate SMS message to a Barred Mobile.

BT > MOBILE CP

Test 2.6.5	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

2.6.5.4 Attempt to generate SMS message to a Stolen Mobile.

BT > MOBILE CP

Test 2.6.5	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

2.6.6 Call to invalid/OOS fixed line number.

2.6.6.1 Attempt to generate SMS message to an number with an invalid NNG range

MOBILE CP > BT

Test 2.6.6 .1	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

<u>2.6.6.2</u> Attempt to generate SMS message to a number with an invalid 'subscriber' number within a valid NNG range.

MOBILE CP > BT

Test 2.6.6 .2	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.6.6.3 Attempt to generate SMS to an OOS line without a 1571 service.

MOBILE CP > BT

Test 2.6.6 .3	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.6.6.4 Attempt to generate SMS to an OOS line with a 1571 service

Test 2.6.6 .4	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.6.7 Call to line on divert

The SMS will be delivered to the Mobile handset for all types of call forward (one cannot call forward SMS messages)

BT > MOBILE CP

Test 2.6.7	Access code	Orig. Line	Term. Line	Divert status	Comments	Results
(a)	11digits	POTS	Mobile	All	SMS delivered to handset	

MOBILE CP > BT

Test 2.6.7	Access code	Orig. Line	Term. Line	Divert status	Comment	Results
(d)	11digits	Mobile	POTS	All		
(e)	11digits	Mobile	POTS	Busy		
(f)	11digits	Mobile	POTS	No reply		

2.7 Mobile Originated messages containing at least 321 characters to a Fixed line equipped with a DECT phone.

Note: A MAP message can only support a maximum of 160 character, thus in this case there will be three SMS 'messages' between the calling and called line. In this case the SMS process is designed for a single SRI interchange which is followed by 'multiple SMS messages, (known as More Messages to Follow(MMS)) to the fixed SMSC.

This test is required to confirm that the fixed SMSC and the BT SMS delivery mechanism can support the 'MMS' feature.

MOBILE CP > BT

Test 2.7.1	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.8 Check performance of BT text to speech converter.

This test is required to understand the customer experience of the text to speech converter, where the 'SMS' speech' to delivered to the called line

2.8.1 Mobile originated SMS messages containing 'known' abbreviations.

MOBILE CP > BT

Test 2.8.1	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.8.2 Mobile originated SMS messages containing 'unknown' abbreviations

MOBILE CP > BT

Test 2.8.2	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.8.3 Mobile originated SMS messages containing 'Adult content'

MOBILE CP > BT

Test 2.8.3	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.8.4 Mobile originated SMS message with greater than 321 characters (testing multiple delivery).

Test 2.8.4	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.8.5 Mobile originated SMS containing a picture

MOBILE CP > BT

Test 2.8.5	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.8.6 Generate SMS from VSD platform template

MOBILE CP > BT

Test 2.8.6	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.9 Check performance of BT text to speech delivery to a 1571 voicebox.

This test is required to understand the customer experience of the text to speech converter, where the 'SMS' speech' is delivered to the 1571 voicebox associated with the called line

2.9.1 Mobile originated SMS messages containing 'known' abbreviations.

MOBILE CP > BT

Test 2.9.1	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.9.2 Mobile originated SMS messages containing 'unknown' abbreviations.

Test 2.9.2	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.9.3 Mobile originated SMS messages containing 'Adult content'.

MOBILE CP > BT

Test 2.9.3	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.9.4 Mobile originated SMS message with greater than 321 characters (testing multiple delivery).

MOBILE CP > BT

Test 2.9.4	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.9.5 Mobile originated SMS containing a picture

MOBILE CP > BT

Test 2.9.5	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.9.6 Generate SMS from VSD platform template

Test 2.9.6	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.9.7 Generate sufficient 1571 maximum deposits to confirm treatment of subsequent messages.

MOBILE CP > BT

Test 2.9.7	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	Mobile	POTS	Released		

2.10 Generate sufficient fixed originated SMS to fill a SIM card to achieve the 'SIMFULL' response to confirm treatment of subsequent.

BT > MOBILE CP

Test 2.10	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

2.11 Generate SMS messages in both directions using international (+44) and National Called Party Numbers.

BT > MOBILE CP

Test 2.11	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Released		

Test 2.11	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(b)	11digits	Mobile	POTS	Released		

2.12 Attempt to generate fixed originated SMS messages with no CLI and withheld CLI.

BT > MOBILE CP

Test 2.12	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	11digits	POTS	Mobile	Unavailable		
(b)	11digits	POTS	Mobile	Withheld		

2.13 Generate Fixed originated SMS messages to MOBILE CP Short Codes

BT > MOBILE CP

Test 2.13	Access code	Orig. Line	Term. Line	CLI	Comments	Results
(a)	tba	POTS	Mobile	Released		

2.14 Provocative Tests - Normal Conditions

2.14.1	At BT, and with calls in progress, out of service a SS7 signalling card associate MOBILE CP signalling route. Check for satisfactory interworking behaviour. calls. Return to service and check for satisfactory interworking behaviour.		
	Comments	Results	

2.14.2	At MOBILE CP, and with calls in progress, out of service a SS7 signal associated with the BT signalling route. Check for satisfactory interworking I Clear the calls. Return the affected hardware to service and check for sinterworking behaviour	pehaviour.
	Comments	Results

2.14.3	2 Megabit bearer line breaks Or intact throughout the test.	nly one PCM system to be b	roken - the other remains
Test	Combination	Comment	Results
(a)	BT 2sec break TX		
(b)	BT 20sec break TX		
(c)	BT 2sec break RX		
(d)	BT 20sec break RX		
(e)	BT 2sec break TX and RX		
(f)	BT 20sec break TX and RX		
(g)	BT 6mins break TX and RX		
(h)	MOBILE CP 2sec break TX		
(i)	MOBILE CP 20sec break TX		
(j)	MOBILE CP 2sec break RX		
(k)	MOBILE CP 20sec break RX		
(I)	MOBILE CP 2sec break TX and RX		
(m)	MOBILE CP 20sec break TX and RX		
(n)	MOBILE CP 6mins break TX and RX		

2.15 Restart and Restoration Tests

Comments Results	2.15.1	BT SPR Restart (small)	
	Comme	ents	Results

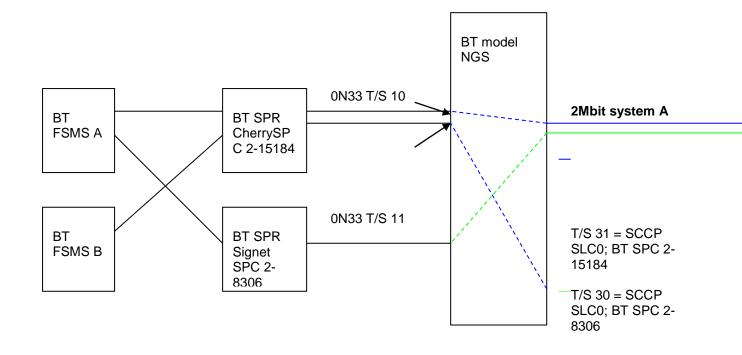
2.15.2	BT SPR Restoration (Large restart)	
Comme	nts	Results
2.15.3	MOBILE CP Small Restart	
Comme	nts	Results
2.15.4	MODU E CD Bootowstion (Louve Bootows)	
2.15.4	MOBILE CP Restoration (Large Restart)	
Comme	nts	Results
2.16 Ala	arm tests	
2.16.1	Check that the nominal pulse rate is 2048kbits/s +/- 50ppm	T
Comme	nts	Results
		, , , , , , , , , , , , , , , , , , ,
2.16.2	Check that the frame alignment signal errors does not exceed period	1 in a 15 minute
	nts	Results

2.16.3	Check that an alarm indication is generated for a loss of the outgoing sign	gnal
Comme	ents	Results
2.16.4	Check that an alarm indication is generated for a loss of outgoing frame	alignment
Comme	ents	Results
2.16.5	Check that an alarm indication is generated if the error rate in the frame signal is 1 in 10 ³	alignment
Comme	ents	Results
2.16.6	Check response to AIS (alarm indication signal)	
Comme	ents	Results
2.16.7	Check for false AIS	1
Comme	ents	Results
		1

END OF MAIN TEXT

APPENDIX A TEST CONFIGURATION

BT – MOBILE CP model interconnect via megastreams





2Mbit system B

T/S 31 = SCCP SLC1; BT

SPC 2-15184

For SCCP, the NGS has through connected circuits to the SPR's which are the signalling node.

MOBILE CP Point Code = tba BT Point Code = 2-15184 (dec) Cherry

BT point code = 2-8306 (dec) Signet

MOBILE CP Number Plan BT Number Plan

tba 0191 2 + 6 digits (Local System X)

02920 + 6 digits (Local System X)

0207 3 + 6 digits (Local AXE10)

01333/4 + 6 digits (Local AXE10)

END OF APPENDIX A

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